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G02B 5/30**G02B 1/10****G02B 5/18****G02F 1/13363****// C08J 5/18**(21) Application number: **11159255**(71) Applicant: **NIPPON MITSUBISHI OIL CORP**(22) Date of filing: **07.06.99**(72) Inventor: **NISHIMURA RYO**(54) **MANUFACTURE OF CHOLESTERIC LIQUID CRYSTALLINE FILM**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a method for manufacturing a cholesteric liquid crystalline film of which the diffracted rays themselves produce specified polarized light such as circularly polarized light or linearly polarized light.

SOLUTION: The method for manufacturing a cholesteric liquid crystalline film having a region exhibiting diffractiveness on a part of it contains the first step to spread a liquid crystal material

on a diffraction pattern surface of a diffraction element substrate, the second step to make the spread liquid crystal material form cholesteric alignment in a liquid crystal state and subsequently to fix the alignment to form a cholesteric liquid crystalline film on the diffraction element substrate, the third step to laminate the surface of the cholesteric liquid crystalline film and a supporting substrate via an adhesive layer and the fourth step to remove the diffraction element substrate from the cholesteric liquid crystalline film.

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